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| class size | undergraduate edu. | | | |

17. ABSTRACT (MAX. 250 WORDS)

An attempt to measure the relationship of the number of credit hours taught—graduate and undergraduate—to the numbers of full-time staff members needed to offer such hours and, in turn to the number of full-time equivalent students. Three different levels of teaching load were assumed: 8 hours as a full graduate load and 11 as a full undergraduate load; 12 hours as a full graduate load and 15 as a full undergraduate load; and 10 hours as a full graduate load and 13 as a full undergraduate load.

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# A Study of the Student-Staff Ratio at Three Levels of Load for the Period 1952-59

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Office of Education

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Bureau of University Research
Northern Illinois University
November 1960

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This is an attempt to measure the relationship of the number of credit hours taught--graduate and undergraduate--to the number of full-time staff members needed to offer such hours and in turn to the number of full-time equivalent students.

It is in no sense a counting of noses to obtain full-time staff equivalents. Rather three different levels of load are assumed: (1) Eight hours as a full graduate load and eleven as a full undergraduate load; (2) twelve hours as a full graduate load and fifteen hours as a full undergraduate load; (3) ten hours as a full graduate load and thirteen hours as a full undergraduate load. The latter probably comes nearest to our own situation.

In each case it is assumed that the resulting number of staff is that required to offer this number of hours with no other duties.

Table I gives the pertinent data for the period 1952-59 to ascertain the number of staff actually required at each of the above three levels of load. Table II gives the data providing the ratio of this number of staff to the corresponding full time equivalent student body. Chart A presents this material in graphic form relative to two different criteria.

TABLE I

Northern Illinois University

Number of Credit Hours Taught
(Including Extension)
by Graduate and Undergraduate Level
and Staff Required at Three Levels of Load
1952 - 1959, Fall Semesters Only

| Year (Fall) | Y Credit Hours Taught Undergraduate | X Credit Hours Taught Graduate | Full Time Equivalent Staff Needs | | |
|---|---|---|---|---|---|
| | | | $\frac{X}{12} + \frac{Y}{15}$ | $\frac{X}{10} + \frac{Y}{13}$ | $\frac{X}{8} + \frac{Y}{11}$ |
| 1952 | 1401 | 99 | 101.65 | 117.50 | 139.73 |
| 1953 | 1320 | 113 | 97.42 | 112.81 | 134.12 |
| 1954 | 1327 | 102 | 96.97 | 112.96 | 133.38 |
| 1955 | 1658 | 90 | 118.03 | 136.55 | 161.97 |
| 1956 | 1597 | 83 | 113.39 | 131.15 | 155.55 |
| 1957 | 2272 | 119 | 161.38 | 186.15 | 221.41 |
| 1958 | 2626 | 150 | 188.07 | 217.60 | 258.22 |
| 1959 | 2807 | 226 | 205.97 | 238.52 | 283.43 |
| 1960 | 2944 | 273 | 219.01 | 249.91 | 301.76 |

TABLE II

Northern Illinois University
Number of Full Time Equivalent Students and Staff
and Student-Staff Ratio at Three Levels of Load
1952 - 59, Fall Semester Only

| Year (Fall) | FTE Students | FTE Staff and Ratio | | | | | |
|---|---|---|---|---|---|---|---|
| | | $\frac{x}{12} + \frac{y}{15}$ | Ratio | $\frac{x}{10} + \frac{y}{13}$ | Ratio | $\frac{x}{8} + \frac{y}{11}$ | Ratio |
| 1952 | 1842 | 101.65 | 18.12 | 117.50 | 15.68 | 139.73 | 13.18 |
| 1953 | 2087 | 97.42 | 21.42 | 112.81 | 18.50 | 134.12 | 15.56 |
| 1954 | 2257 | 96.97 | 23.75 | 112.96 | 19.98 | 133.38 | 16.92 |
| 1955 | 2870 | 118.03 | 24.31 | 136.55 | 21.02 | 161.97 | 17.72 |
| 1956 | 3610 | 113.39 | 31.83 | 131.15 | 27.52 | 155.55 | 23.21 |
| 1957 | 4154 | 161.38 | 25.74 | 186.15 | 22.31 | 221.41 | 18.76 |
| 1958 | 4867 | 188.07 | 25.88 | 217.60 | 22.37 | 258.22 | 18.84 |
| 1959 | 5120 | 205.97 | 24.86 | 238.52 | 21.46 | 283.43 | 18.06 |
| 1960 | 5737 | 219.01 | 26.20 | 249.91 | 22.94 | 301.76 | 19.00 |

# C H A R T A

## STAFF OVERLOAD

FTE (Students) / FTE (Staff)

( STAFF BASIS IS ACTUAL NUMBER OF STAFF NEEDED TO TEACH TOTAL NUMBER OF HOURS OFFERED AT THREE DIFFERENT LEVELS OF LOAD--ASSUMES ALL OTHER NON-TEACHING DUTIES ARE JUSTIFIED)